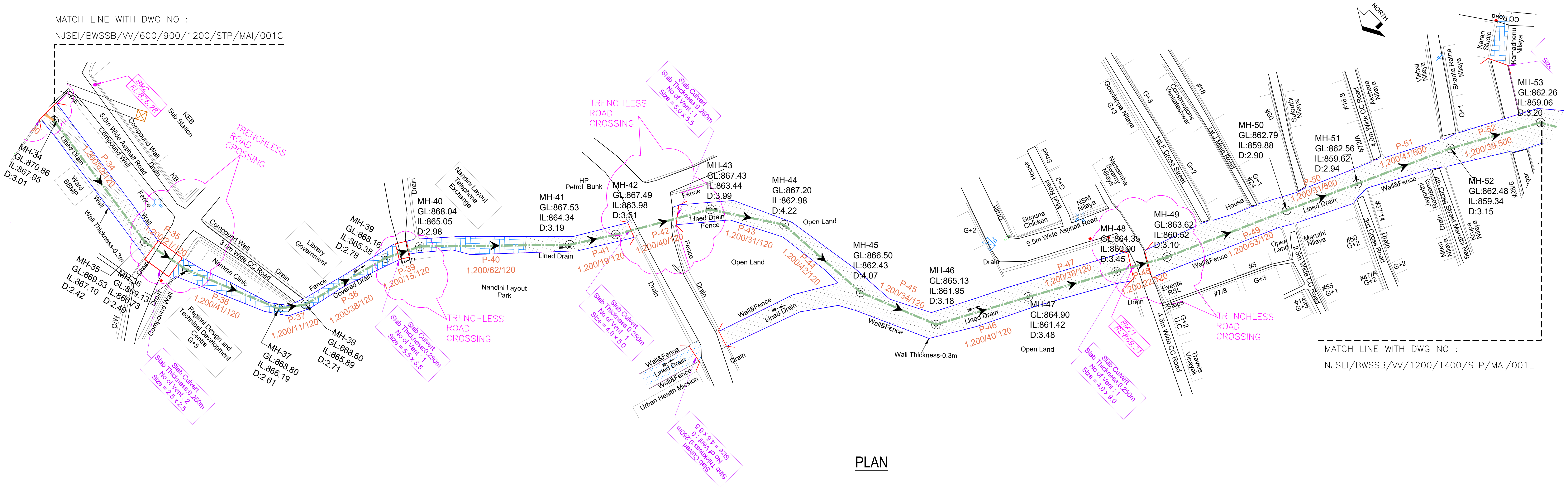
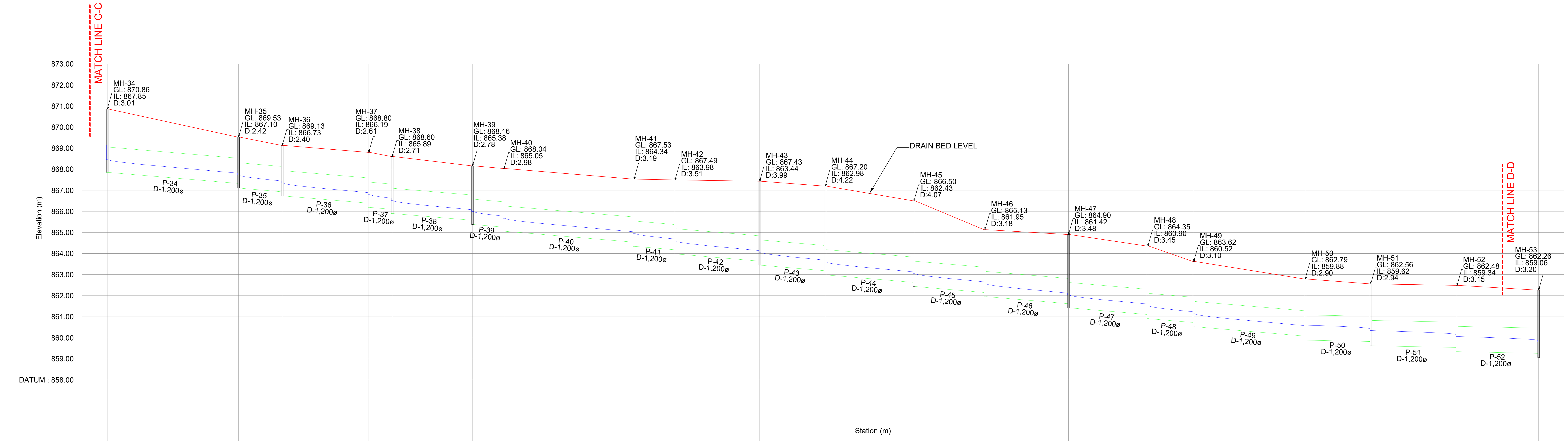


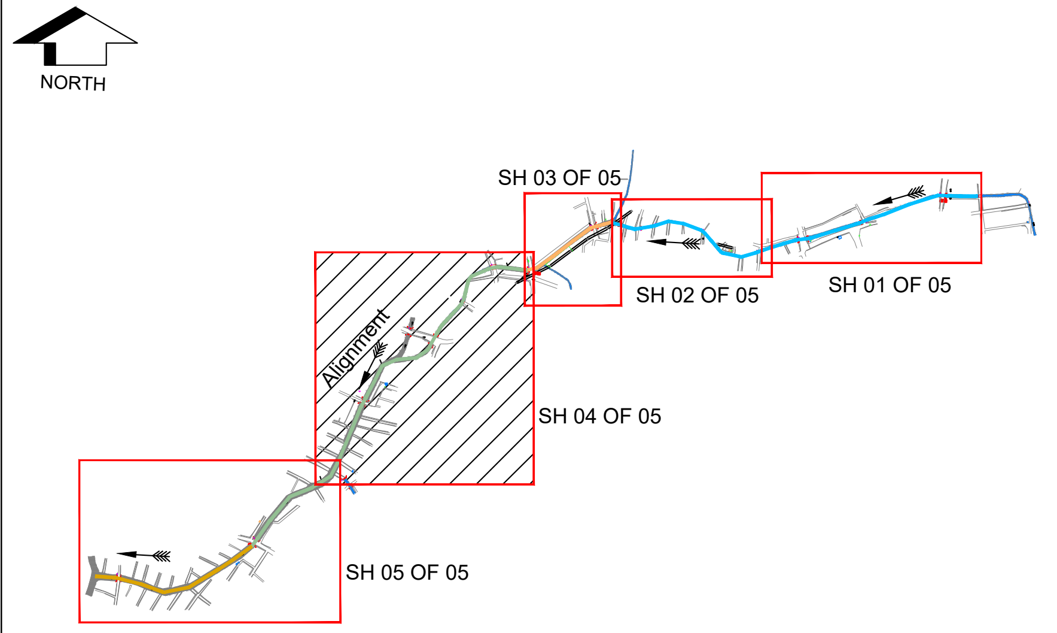
PLAN



PIPE LABEL	P-34	P-35	P-36	P-37	P-38	P-39	P-40	P-41	P-42	P-43	P-44	P-45	P-46	P-47	P-48	P-49	P-50	P-51	P-52
DIA (mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
LENGTH (m)	62	21	41	11	38	15	62	19	40	31	42	34	40	38	22	53	31	41	39
SLOPE (1 IN)	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	500	500	500

MH LABEL	CHAINAGE (m)	DRAIN BED LEVEL (m)	INVERT LEVEL (m)
MH-34	1050	870.86	867.85
MH-35	1112	869.53	867.10
MH-36	1133	869.13	866.73
MH-37	1174	868.80	866.19
MH-38	1185	868.60	865.89
MH-39	1223	868.16	865.38
MH-40	1238	868.04	865.05
MH-41	1300	867.53	864.34
MH-42	1319	867.49	863.98
MH-43	1360	867.43	863.44
MH-44	1391	867.20	862.98
MH-45	1433	866.50	862.43
MH-46	1467	865.13	861.95
MH-47	1506	864.90	861.42
MH-48	1544	864.35	860.90
MH-49	1566	863.62	860.52
MH-50	1619	862.79	859.88
MH-51	1650	862.56	859.62
MH-52	1691	862.48	859.34
MH-53	1730	862.26	859.06

L - SECTION



KEY PLAN:

LEGEND:

▬ ▪ ▬ ▪	250 MM PROPOSED SEWER
▬ ▪ ▬ ▪	300 MM PROPOSED SEWER
▬ ▪ ▬ ▪	350 MM PROPOSED SEWER
◎	PROPOSED MANHOLE
⊕	EXISTING MANHOLE
P	PIPE
△ OF	OUTFALL
➤	FLOW DIRECTION
MHTL	EXISTING TRUNK SEWER MANHOLE TOP LEVEL
MHIL	EXISTING TRUNK SEWER MANHOLE INVERT LEVEL
▬ ▪ ▬ ▪	400 MM PROPOSED SEWER
▬ ▪ ▬ ▪	450 MM PROPOSED SEWER
▬ ▪ ▬ ▪	600 MM PROPOSED SEWER
▬ ▪ ▬ ▪	700 MM PROPOSED SEWER
▬ ▪ ▬ ▪	1000 MM PROPOSED SEWER
▬ ▪ ▬ ▪	1200 MM PROPOSED SEWER
▬ ▪ ▬ ▪	1400 MM PROPOSED SEWER
▬ ▬	EXISTING TRUNK SEWER
▬	DRAIN
▬	ROAD
▨	COVERED DRAIN

XX — SEWER DIAMETER
XX — PIPE NUMBER
XX — SLOPE(1 in N)
XX — LENGTH

MH-XX — MANHOLE NUMBER
G.L:XX — GROUND LEVEL
I.L:XX — INVERT LEVEL
D=X — DEPTH OF MANHOLE

SCHEDULE OF TRUNK SEWERS NANDINI LAYOUT ALIGNMENT (0.0 KM TO 2.33KM)

S.NO	OUTFALL	DIAMETER (MM)	SEWER DETAILS	
			LENGTH (M)	NO. OF MANHOLES
1	O-1	600	749	22
2		1000	300	11
3		1200	912	24
4		1400	369	8
TOTAL			2330	65

NOTES:

1. ANY MISMATCH IN LEVELS SHALL BE REPORTED TO THE UNDERSIGNED BEFORE STARTING OF THE WORK.
2. ALL SEWER PIPES ARE NOMINAL DIAMETER.
3. ALL LEVELS ARE IN METERS AND DIAMETER IN MM.
4. DROP SHALL BE PROVIDED FOR A MANHOLE, WHEN A LEVEL DIFFERENCE IS MORE THAN 0.6M.
5. DO NOT SCALE THE DRAWINGS.
6. BEFORE STARTING OF THE MAINS/TRUNK SEWER, THE EXISTING LATERALS DEPTH/DETAILS SHALL BE VERIFIED BY THE CONTRACTOR IN CONSULTATION WITH ENGINEER. ANY ISSUES WITH RESPECT TO LEVELS MISMATCH OF THE EXISTING SEWER LEVELS/PROPOSED SEWER LEVELS SHALL BE REPORTED TO THE UNDERSIGNED.
7. CARRYING OUT WORKS WITHOUT CLEARENCE FROM ENGINEERS WILL BE AT THE RISK AND COST OF THE CONTRACTOR.
8. WORK SHALL BE CARRIED OUT AS PER THE DIRECTION OF THE ENGINEER & AS PER CONTRACT PROVISIONS.
9. BEFORE STARTING OF THE WORK, THE CONTRACTOR SHALL ASSESS THE UNDERGROUND / OVERGROUND UTILITY DETAILS AS PER CONTRACT PROVISIONS.
10. THE TOP OF THE MANHOLES IN DRAIN/NALLAH SHALL BE AS PER SITE CONDITION & AS DIRECTED BY THE ENGINEER.
11. IN CASE OF SLUSHY SOIL/LOOSE SOIL, BEDDING SHALL BE DONE AS PER THE DIRECTION OF THE ENGINEER AND AS PER CONTRACT PROVISIONS.
12. THE HEIGHT OF MANHOLE SHALL BE ABOVE HFL/AS DIRECTED.
13. MH TOP LEVEL SHOULD BE MATCHED WITH THE EXISTING FINISHED ROAD LEVEL IN ALL CONDITIONS. BENCHING TO BE DONE WHEREVER REQUIRED ON THE FLAT/SLOPING ROADS.
14. ROAD RESTORATION SHOULD BE DONE AS PER THE CONTRACT SPECIFICATIONS AND BOQ.
15. THE DETAILED SURVEY/INVESTIGATION FOR TRENCHLESS CROSSING SHALL BE SUBMITTED AS PER CONTRACT

REV.	DATE OF ISSUE	PREPARED BY	CHECKED BY	VALIDATED BY	PM	SUBMISSION PURPOSE

CLIENT
CHIEF ENGINEER (WWM-WEST)
BANGALORE WATER SUPPLY AND SEWERAGE BOARD

CONSULTANT
NJS ENGINEERS INDIA PVT. LTD

PROJECT
Preparation of Detailed Project Report & Cost Estimates for Part A -Construction of new Sewage Treatment Plants at Mailasandra and Doddabele STP premises, and Part B - Upgradation / Rehabilitation / Replacement of Sewer Network in Vrushabavathi Valley.

TITLE
PLAN AND L-SECTION OF TRUNK SEWER NANDINI LAYOUT ALIGNMENT FROM CHAINAGE 1050m TO 1730m SHEET (04 OF 05)

DRAWN BY :		VERIFIED BY :	
DESIGNED BY:		APPROVED BY :	
SCALE:	DRG. NO. NJSEI/BWSSB/VV/1200/STP/MAI/001D	DATE 04-07-2025	REV. R0